

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|---|---|------------------|---------|------------------|
| L1 | 4275 | (315/291).ccls. or (315/307).ccls. or (315/309).ccls. or (315/297).ccls. or (315/311).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:20 |
| L15 | 1454 | (315/312).ccls. or (315/316).ccls. or (315/324).ccls. or (315/185S).ccls. or (315/200A).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:44 |
| L16 | 4605 | (315/224).ccls. or (315/225).ccls. or (315/209R).ccls. or (315/DIG. 4).ccls. or (315/247).ccls. or (315/200R).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 12:51 |
| L17 | 8191 | 1 or 15 or 16 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 14:06 |
| L18 | 91 | ((Andre near3 Yu) (Jeffrey near3 Chang) (Bill near3 Huang)).in. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 16:14 |
| L19 | 1 | 18 and (PWM (pulse near3 (width modulat\$4))) and nois\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:27 |
| L20 | 2 | ("20030151601").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/05/16 14:38 |
| L21 | 53757 | (PWM (pulse near3 (width modulat\$4))) and nois\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:38 |
| L22 | 29687 | 21 and (inverter converter) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 15:01 |
| L23 | 605 | 22 and (duty near3 cycle) and (DC?DC) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:02 |
| L24 | 22 | 23 and 1 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 16:17 |

| | | | | | | |
|-----|-------|---|------------------------------------|----|----|------------------|
| L25 | 242 | 23 and (((duty near3 cycle) PWM) same (vary varing varied variable variati on chang\$5 adjust\$5) same (predetermin\$5 range limit\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 16:54 |
| L26 | 11558 | (((duty near3 cycle) PWM) same (vary varing varied variable variati on chang\$5 adjust\$5) same (predetermin\$5 range limit\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:07 |
| L27 | 1726 | 26 and (DC?DC boost\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:12 |
| L28 | 249 | 27 and dim\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:14 |
| L29 | 79 | 28 and ("315"/\$7).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:03 |
| L30 | 32 | 29 and (LEDS (light near3 (emitting diode))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:59 |
| L31 | 28 | 30 not 25 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:14 |
| L32 | 50019 | (nois\$3 (video near3 signal) reference) same (PWM (pulse near3 (width modulat\$4))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:28 |
| L33 | 4504 | 32 and (DC?DC boost\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:21 |
| L34 | 924 | 33 and (LEDS (light near3 (emitting diode))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:12 |
| L35 | 213 | 34 and 26 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:13 |
| L36 | 113 | 35 not (31 25) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:21 |

| | | | | | | |
|-----|------|---|---|----|----|------------------|
| L37 | 485 | 17 and 21 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:20 |
| L38 | 236 | 37 and (((duty near3 cycle) PWM) same (vary varing varied variable variati on chang\$5 adjust\$5)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:31 |
| L39 | 101 | 38 and (DC?DC boost\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:39 |
| L40 | 66 | 39 not (36 31 25) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:31 |
| L41 | 4259 | nois\$3 near7 (PWM (pulse near3 (width modulat\$4))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:28 |
| L42 | 887 | 41 and (((duty near3 cycle) PWM) same (vary varing varied variable variati on chang\$5 adjust\$5)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:31 |
| L43 | 145 | 42 and (DC?DC boost\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:31 |
| L44 | 75 | 43 not (40 36 31 25) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:39 |
| L45 | 633 | (video near4 (signal input)) and (PWM (pulse near3 (width modulat\$4))) and nois\$3 and (((duty near3 cycle) PWM) same (vary varing varied variable variati on chang\$5 adjust\$5)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:38 |
| L46 | 113 | 45 and (DC?DC boost\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:08 |
| L47 | 85 | 46 not (44 40 36 31 25) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 17:57 |
| L48 | 742 | 42 not (47 44 40 36 31 25) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:19 |

| | | | | | | |
|-----|-------|--|---|----|----|------------------|
| L49 | 15 | 48 and ("345"/\$7).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:04 |
| L50 | 114 | 48 and (LED\$ (light near3 (emitting diode))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:06 |
| L51 | 620 | 48 not (50 49) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 18:03 |
| L52 | 11 | 51 and ("315"/\$7).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:05 |
| L53 | 20306 | (LED\$ (light near3 (emitting diode))) same (LCD (liquid near3 crytal)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:29 |
| L54 | 128 | 53 and ((duty near3 cycle) same (vary varing varied variable variati on chang\$5 adjust\$5) same (predetermin\$5 range limit\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:18 |
| L55 | 35804 | "55" and (DC?DC boost\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:09 |
| L56 | 30 | 54 and (DC?DC boost\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:09 |
| L57 | 98 | 54 not 56 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:10 |
| L58 | 485 | 17 and (PWM (pulse near3 (width modulat\$4))) and nois\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:27 |
| L59 | 147 | 58 and ((duty near3 cycle) same (vary varing varied variable variati on chang\$5 adjust\$5)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:57 |
| L60 | 0 | 57 not (56 57 50 49 47 44 40 36 31 25) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:20 |

| | | | | | | |
|-----|--------|--|---|----|----|------------------|
| L61 | 86 | 59 not (56 57 50 49 47 44 40 36 31 25) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:28 |
| L62 | 1 | 5 and (PWM (pulse near3 (width modulat\$4))) and nois\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:27 |
| L63 | 890 | ("315"/\$7).cccls. and (PWM (pulse near3 (width modulat\$4))) and nois\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:27 |
| L64 | 683 | 63 not (61 56 57 50 49 47 44 40 36 31 25) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:38 |
| L65 | 251 | 64 and (LEDS (light near3 (emitting diode))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:37 |
| L66 | 421 | 15 and (LEDS (light near3 (emitting diode))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:37 |
| L67 | 121 | 66 and (PWM (pulse near3 (width modulat\$4))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:38 |
| L68 | 85 | 67 not (65 61 56 57 50 49 47 44 40 36 31 25) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:02 |
| L69 | 8 | (visual\$5 near3 noise) same (PWM (pulse near3 (width modulat\$4))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:55 |
| L70 | 319 | ("362"/\$7).cccls. and LED\$1 and (PWM (pulse near3 (width modulat\$4))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:56 |
| L71 | 79 | 70 and ((duty near3 cycle) same (vary varing varied variable variati on chang\$5 adjust\$5)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:01 |
| L72 | 225720 | (tuyet near3 vo).xa,xp. ane (PWM (pulse near3 (width modulat\$4))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:01 |

| | | | | | | |
|-----|------|--|---|----|----|------------------|
| L73 | 85 | (tuyet near3 vo).xa,xp. and (PWM (pulse near3 (width modulat\$4))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:02 |
| L74 | 75 | 73 not (71 65 61 56 57 50 49 47 44 40 36 31 25) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:02 |
| L75 | 338 | 58 not 59 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:43 |
| L76 | 1411 | 15 not 75 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:44 |
| L77 | 732 | 76 and (first same second) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:44 |

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|---|------------------------------------|------------------|---------|------------------|
| L70 | 319 | ("362"/\$7).ccls. and LED\$1 and (PWM (pulse near3 (width modulat\$4))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 19:56 |
| L71 | 79 | 70 and ((duty near3 cycle) same (vary varying varied variable variati on chang\$5 adjust\$5)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:01 |
| L72 | 225720 | (tuyet near3 vo).xa,xp. ane (PWM (pulse near3 (width modulat\$4))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:01 |
| L73 | 85 | (tuyet near3 vo).xa,xp. and (PWM (pulse near3 (width modulat\$4))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:02 |
| L74 | 75 | 73 not (71 65 61 56 57 50 49 47 44 40 36 31 25) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:02 |
| L75 | 338 | 58 not 59 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:43 |
| L76 | 1411 | 15 not 75 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:44 |
| L77 | 732 | 76 and (first same second) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/05/16 20:44 |